

FIG. 1

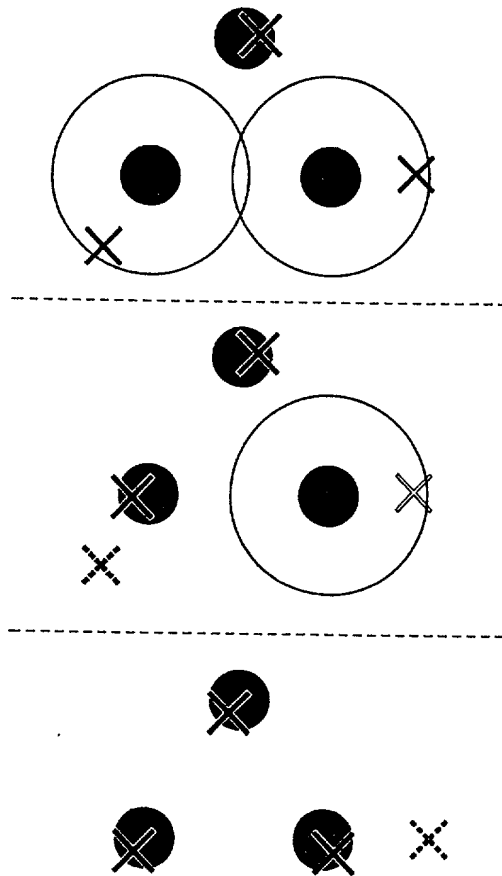


FIG. 2

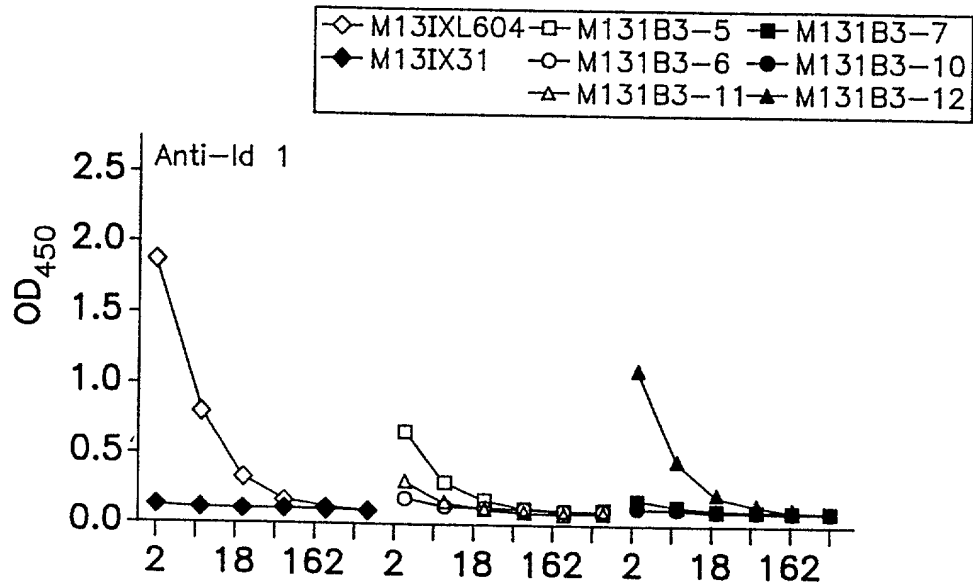


FIG. 3A

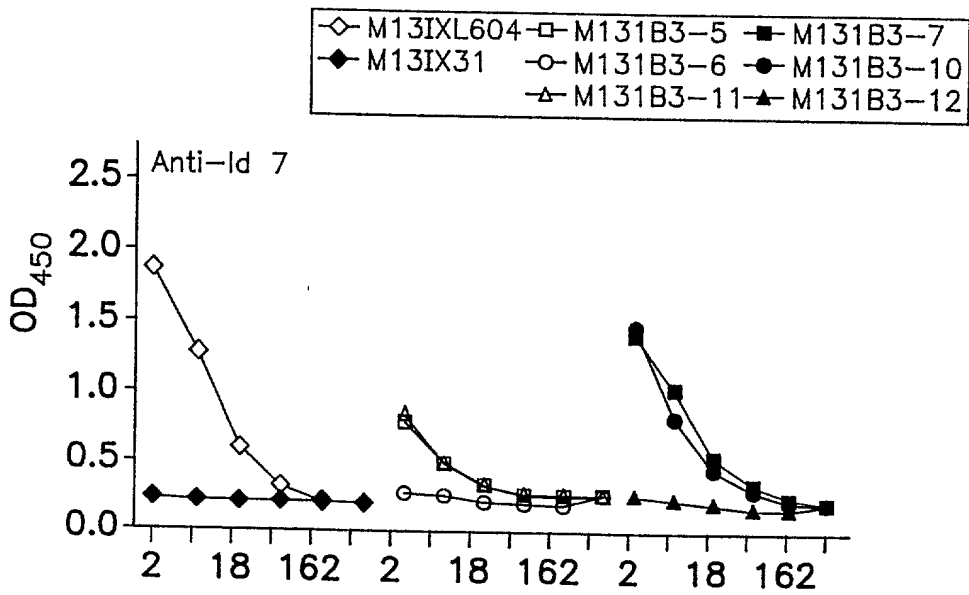


FIG. 3B

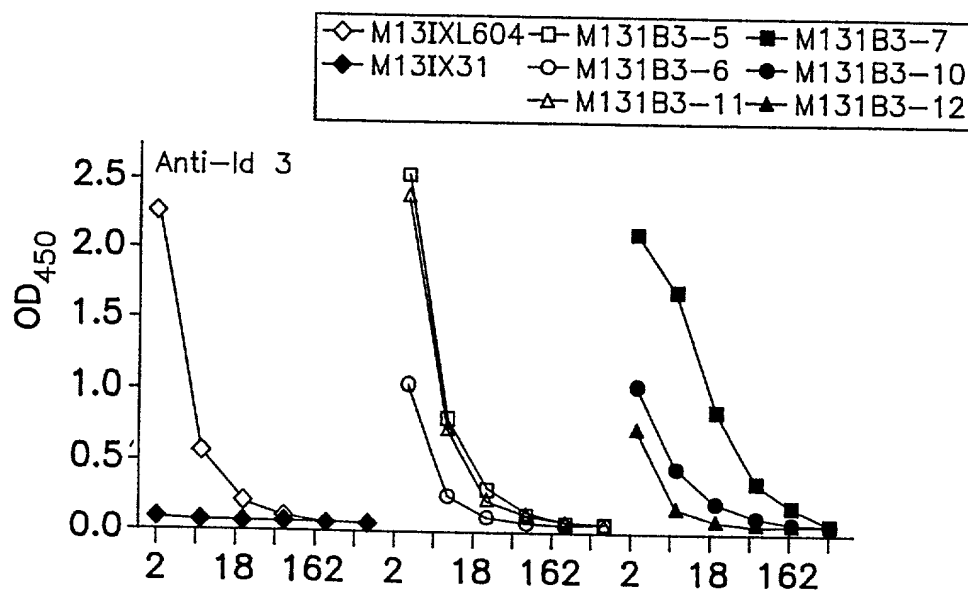


FIG. 3C

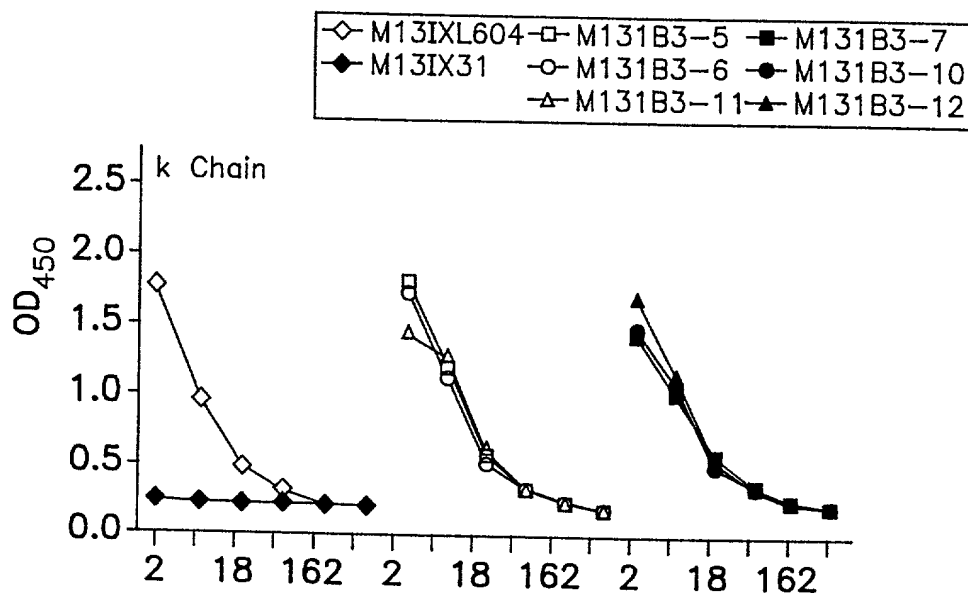


FIG. 3D

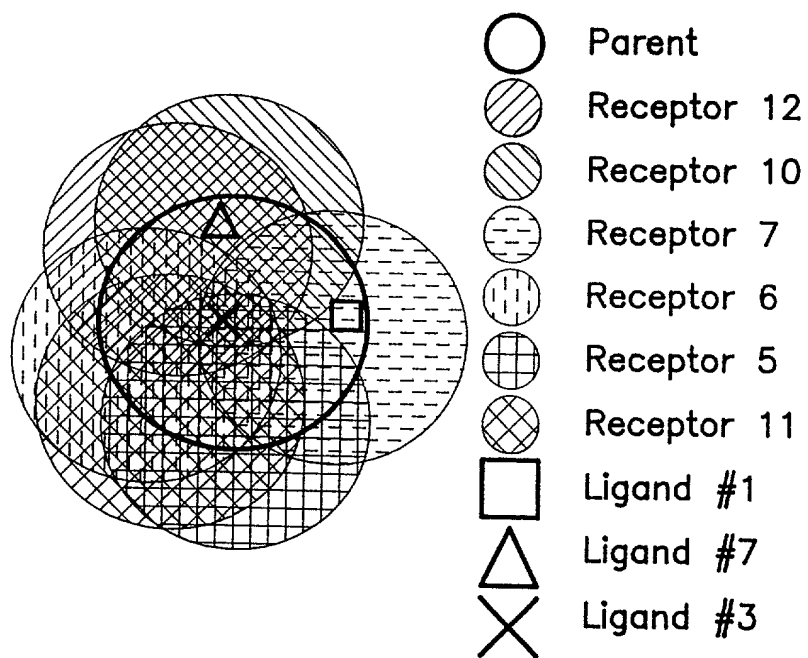


FIG. 4

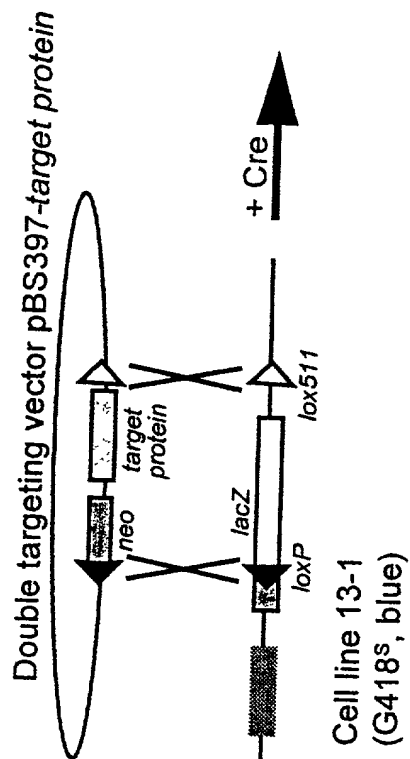
A. loxP

ATAACTTCGTATAAATGATGCTATACGAAAGTTAT
TATTGAAGCATATTACATAGGATATGCTTCAATA

B. lox511

ATAACTTCGTATAAATGATGCTATACGAAAGTTAT
TATTGAAGCATATTACATAGGATATGCTTCAATA

C. Cre-mediated double crossover



ATTORNEY DOCKET: P-IX 5066
INVENTOR: WILLIAM D. HUSE

FIGURE 5

Sh ble	*	MAKLTSAV	10	TARD	VAGAVE	FWTDR	10	SRDFVEDDE	FAGVVRDD	
Sa ble		-MRMLQSI		PAIPVGD	IKKSI	GYCDK	10	TLVHHEDG	FVLMCNE	
Tn5 ble		--MTDQAT	10	PND	PSRDFD	STAA	20	RY-ERLGE	GIVFRDAGWMILQRGD	40
Sh ble	*	VTLFISAV	50	QDQ	-----	VVPDNT	60	LA	WVVRGLD	70
Sa ble		VRIHLWEAS		DEGWR	SRSDSP	CTGAES	60	FIAGTAS	CRIEVEGID	
Tn5 ble		LMLEFFAHP	50	GLDP	-----	LASWFS	60	CLRLDD	LAFFYRQC	
Sh ble	*	SEVVSTNFR	80	DASGPAM	TEIGEOP	WG-REF	90	LRDPAGN	CVHFVAEEQD	100
Sa ble		KPL	80	-----	GILHPNT	SLKDD	90	WDERDF	AVIDPDNN	110
Tn5 ble		KSV-GIQET	80	SSGYPRI	HAPELQ	EWGGTMA	90	ALVDPD	GTLLRLIQNELLAGIS	120

FIGURE 6

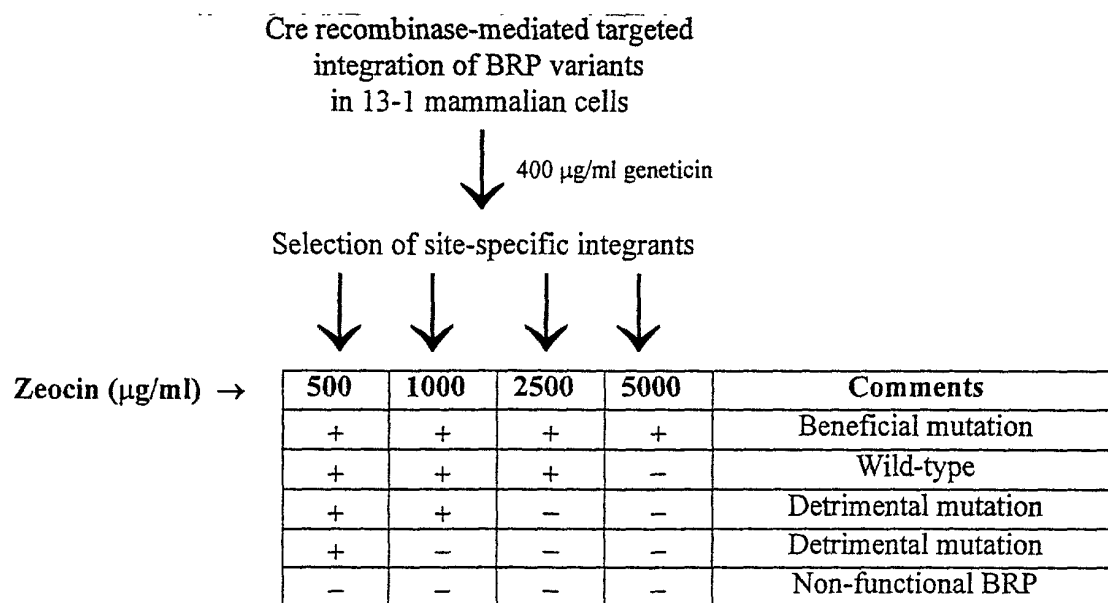


FIGURE 7

10 20 30 40 50
EDDII IATKNGKVRGMNLT VFGGT VTAFLGIPYAQPPLGRLRFKKPQSLTK
60 70 80 90 100
WSDIWNATKYANSCCQ NIDQSFPGFHGSEMWN PNTDLSEDCLYLN VWIPAP
110 120 130 140 150
KPKNATV LIWIYGGGFQTGTSS LHVYDGKFLARVERVIVVSMNYRVGALGF
160 170 180 190 200
LALPGNPEAPGNMGLFDQQLALQWVQKNIAAFGGNPKSVT LFGESAGA ASV
210 220 230 240 250
SLHLLSPGSHSLFTRAILQ SGSFNAPWAVT SLYEARNRTLNLAKLTGCSRE
260 270 280 290 300
NETEIIKCLRNDPQE ILLNEAFVVPYGTPLSVN FGP TVDGDFLTDMPDIL
310 320 330 340 350
LELGQFKKTQILVGVNKDEGT AFLVYGAPGF SKDNN SIITRKEFQEGLKIF
360 370 380 390 400
FPGVSEFGKESILFHYTDWVDDQRPENYREALGDVVGDYNFICPALEFTKK
410 420 430 440 450
FSEWGNNAFFYYFEHRSSKLP WPEWMGVMHGYEIE FVFGGLPLERRDNYTKA
460 470 480 490 500 510
EEILSR SIVKRWANFAKYGNPNETQNNSTSWPVFKSTEQKYLT LNTESTRI
520 530 540 550 560
MTKLRAQQCRFWTSFFPKVLEMTGNIDEAEWEWKAGFHRWNNYMMDWKNQF
570
NDYTSKKESCVGL

FIGURE 8